

Using API / Subprogram PALUD42

The subprogram PALUD42 is delivered with Predict as standard and is stored in library SYSDIC. It contains parameter data area PALPUD42, which is used for accessing user-defined object types in 4.2 format.

If you wish to access data still in 3.2 format, see Compatibility with Predict Version 3.2.

If you wish to access data still in 3.3, 3.4 or 4.1 format, see Compatibility with Predict Version 3.3, 3.4 and 4.1.

This section contains:

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Parameter Data Area PALPUD42

If API functions are to be called from a program, the parameter data area PALPUD42 must be included in the data definition:

```

      :
      :
  DEFINE DATA
      LOCAL USING PALPUD42      /* API CALLNAT parameter
      LOCAL
      :
      :
```

Field Definitions in PALPUD42

Some fields defined in the parameter data area PALPUD42 can be used both as input or as output fields. These fields may be read and modified by both the Predict program PALUD42 (that executes API functions) and user programs. Other fields may only be used as either input or output fields.

The description of the different functions in the following sections contains lists of the fields that are used as input fields and fields that are used as output fields by the program PALUD42.

Many of the fields defined in the parameter data area PALPUD42 are defined by redefining the field API-INFO(*).

Executing an API Function

From within any program, an API function is executed by calling the program PALUD42 with a CALLNAT statement and the field #FUNCTION containing the code of the function that is to be executed (GA, GV, GO, etc.). All fields of the parameter data area PALPUD42 must be specified with the CALLNAT statement:

```
CALLNAT 'PALUD42'
#FUNCTION
#OBJECT-TYPE
#CHILD-TYPE
#OBJECT-ID
#OBJECT-COMPLETE
#MAINTENANCE-ACTIVITY
#RESP-GR
```

```
#SYSDIC-USER  
#INTERNAL  
#API-INFO ( * )
```

When calling a function, make sure that all the values needed to execute a function are passed.

Condition Codes

After execution of PALUD42, a response code is returned in the field #RESPONSE-GR.

Field Name	Format	Description
#RESPONSE-GR		
#RESP-CODE	I2	Predict error message number. The full text of the respective message can be displayed by entering ? DICnnnn in the command line of Predict (where nnnn is the message number).
#RESP-TEXT1	A34	Text for parameter 1 used in the error message
#RESP-TEXT2	A34	Text for parameter 2 used in the error message

Sample Program PALTEST

The sample program PALTEST, which uses all API functions, is delivered with Predict. Enter PALTEST at the NEXT prompt in your Predict environment to see what PALTEST does.